

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

6460.2  
CHG 22

9/4/97

ELECTRONIC EQUIPMENT MODIFICATION HANDBOOK - NEXT GENERATION WEATHER  
SUBJ: RADAR (NEXRAD)

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CHAPTER 22. INSPECTION/REPLACEMENT OF OPTICAL  
DISK CONTROLLER (ODC) BOARD CHIPS FOR  
THE RADAR DATA ACQUISITION (RDA)  
CABINET AND THE PRINCIPAL USER  
PROCESSING (PUP) CABINET.

1. **PURPOSE.** This modification provides instructions to inspect the ODC boards, part numbers 96-162F01M00R00 through R12 or 96-162F01M01R00 through R05, in the RDA, and PUP. If the ODC boards part numbers are within the above range, replace the ODC EPROM chips, with part numbers 94-602F05R10, 94-602F06R10, 94-602F07R10, 94-602F08R10. This directive implements Engineering Change Proposal (ECP) 4260-002, Concurrent Optical Disk Controller (ODC) Product Upgrade.

2. **DISTRIBUTION.** This directive is distributed to selected offices and services within Washington headquarters, the William J. Hughes Technical Center, the Mike Monroney Aeronautical Center, regional Airway Facilities divisions, and Airway Facilities field offices having the following facilities/equipment: NXRAD.

3. **WITHDRAWALS.** None.

4. **REFERENCES.** None.

5. **BACKGROUND.** Replacement of the ODC chips corrects the problems that occurred during power up initialization and during tape rewind operation. During power up initialization, the ODC initially returned false sync and showed the devices present even if nonexistent. In addition, the power up sequence was not properly displayed on the light display output. During a tape rewind operation, a forced ABORT command caused the Small Computer System Interface (SCSI) bus to loop continuously.

6. **APPLICATION.** This modification applies to all FAA WSR-88D sites.

7. **MATERIALS REQUIRED.** The following material is required to modify each unit and is available in kit form, NSN 6660-K3-117-588A, consisting of the following:

<u>Description</u>	<u>Part No.</u>	<u>Quantity</u>
ODC Board	94-602F05R10 94-602F06R10 94-602F07R10 94-602F08R10	1 each
ODC Board Label	N/A	1 each
Federal Express Label	N/A	1 each

8. **SOURCE OF MATERIALS.** Kits will be requisitioned by the Operational Support Facility (OSF) Logistics Section and shipped, at no cost to the site, from:

National Logistics Supply Center (NLSC)  
1520 East Bannister Road  
Kansas City, MO 64131

9. **SPECIAL TOOLS AND TEST EQUIPMENT REQUIRED.** None.

10. **MODIFICATION TO BE PERFORMED BY.** Field maintenance personnel or as determined by the regional Airway Facilities division.

11. **WHEN MODIFICATION IS TO BE PERFORMED.** Not later than 60 days after receipt of this directive and kit.

12. **ESTIMATED TIME REQUIRED.** A total of 2.0 man-hours are required to accomplish

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Distribution: Selected Airway Facilities Field  
and Regional Offices, ZAF-605

Initiated by: AOS-250

this modification per RDA and PUP. The personnel performing this task will have maintenance and test experience with the WSR-88D RDA and PUP. One technician is required for these procedures.

13. **DISPOSITION OF SURPLUS PARTS**. The removed ODC Chips, part numbers 94-602F05, 94-602F06, 94-602F07, and 94-602F08 revisions R00 through R09, are to be returned to the National Reconditioning Center (NRC) in order to receive credit for the requested part. Use the Federal Express label provided in the kit to return the old ODC Chips to the NRC. Mark the return parts sheet with:

NSN, part number, and part name  
For remarks, write "Part returned for modification"

For rework, return the above part immediately to the NRC at the following address:

National Reconditioning Center (NRC)  
1510 East Bannister Rd  
Kansas City, MO 64131

14. **MODIFICATION PROCEDURES**. Perform the procedures in attachment 1 for the RDA, and attachment 2 for the PUP.

15. **TEST AFTER MODIFICATION**. None.

16. **RESULT OF MODIFICATION**. The WSR-88D products supplied to the end user remain the same.

17. **CHANGES TO INSTRUCTION BOOK**. None.

18. **CHANGES TO INSTALLATION DRAWINGS**. None.

19. **CHANGES TO RECORDED DATA**. Enter this directive number, date, and chapter number on the appropriate FAA Form 6032-1, Airway Facilities Modification Record. Also, complete attachment 3, and forward to:

System Support Branch, Logistics Section  
WSR-88D Operational Support Facility  
3200 Marshall Ave., Suite 101  
Norman, Oklahoma 73072-8028

Fax number: (405) 366-6553

Or e-mail information to:

khare@osf.noaa.gov

20. **CHANGES TO TABLE OF CONTENTS**. This chapter will be included in the next revision to the table of contents for Order 6460.2.

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21. RECOMMENDATIONS FOR CHANGES. Forward any recommendations for changes to this directive through normal channels to the National Airway Systems Engineering Division, AOS-200, Operational Support.

George W. Terrell  
Program Director for Operational Support

3 Attachments